

Quick Start User Guide

Hello Librarian!

Before running the library application, make sure everything required has been installed and completed prior to running Main.java (please read readme.txt for necessary instructions prior to running the main program). Once all pre-processing tasks have been completed, run Main.java to access the library GUI application.

Main Menu

- Upon running Main.java, you will be presented with the main menu with all available options of accessing and querying the library database:
 - Search Book (which can also be used for book checkout)
 - Check Out By ISBN (used to check out a book using a specific ISBN)
 - Check In Book (used to search for loaned out books)
 - Add Borrower (used to add new borrowers into the system)
 - Fines (used to see users with outstanding fines and input payment of fines)
- Further information on each of these functionalities will be found in their respective sections.
- If this main menu is closed, the entire program will shut down

Search Book

- Upon pressing Search Book, you will be presented with a search screen. You may search for books using their ISBN, titular key words, or by Author names. The search also supports substring matching. Search is also case insensitive. Due to these functionalities, the search functionality has certain limitations:
 - You cannot search using an entire title as the algorithm will substring match each specific word, instead try searching using only a key word in the title (i.e. 'There Will Be Wolves' - search using 'Wolves')
- Search results will be in the format: ISBN | Title | Author(s) | Availability
- The results can be selected/highlighted for check out which will be discussed further in the next section.

Checking Out Books

- There are two methods for checking out books, through Search Book or through Check Out By ISBN:
 - Search Book Check Out
 - Once you have obtained the results from your search (see Search Book section), you may select up to 3 books for checkout (more than 3 selections is not possible as a borrower may not check out more than 3 books at a time)
 - To check out, press the 'Check Out Selection' button in the top right and you will be prompted for a borrower ID

- Enter a valid borrower ID and you will be notified if the check out was successful
- Just in case results does not show updated availability, pressing search will act as refresh button
- Check Out By ISBN
 - Input a valid ISBN and if it is in the system/available, prompt for borrower ID will appear
 - Enter a valid borrower ID and you will be notified if the check out was successful
 - Just in case results does not show updated books currently loaned out, pressing search will act as refresh button

Add Borrower

- Upon pressing Add Borrower, a prompt to add a borrow with all required information will appear
- SSN, name, and address are all required to add a borrower
 - Cannot add an SSN that is already contained in the system
- Make sure all formats follow as instructed on the screen to successfully add borrower
- If borrower is successfully added using 'Add Borrower' button, message will indicate so and provide unique borrower id associated with the new user

Fines

- Upon pressing Fines, a list of unpaid any known unpaid fines will appear
 - Any paid fines will not appear
- In case there is a fine not listed, press 'Refresh Fines' on the top left
- 'Refresh Fines' will also be used to update fine amount for a card ID if the amount has increased depending how overdue their late books are
- Fines are listed by Card ID and their total fine amount consisting of all fines related to overdue books that borrower has
 - These can be selected for payment
 - Only one selection at a time
- If a fine is selected, you can pay off the fine by pressing 'Pay Fine Selection'

Closing the program

As stated before, closing the main menu will shut down the program